10/521334 DT Rec'd PCT/PTO 18 JAN 2005

Attorney Docket No.: 0492479-0041 Client Reference: MGH 2170 US

APPENDIX A INTERNATIONAL SEARCH REPORT PCT/US2003/022584



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | | of Transmittal of International Search Report 20) as well as, where applicable, Item 5 below. |
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| International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) |
| PCT/US 03/22584 | 18/07/2003 | 19/07/2002 |
| Applicant | | |
| THE GENERAL HOSPITAL CORPO | DRATION | |
| This International Search Report has bee according to Article 18. A copy is being tra | n prepared by this International Searching Aut ansmitted to the International Bureau. | nority and is transmitted to the applicant |
| | of a total of sheets. a copy of each prior art document cited in this | report. |
| Basis of the report a. With regard to the language, the language in which it was filed, units of the language in which it was filed, units of the language in which it was filed, units of the language. | international search was carried out on the ba less otherwise Indicated under this item. | sis of the international application in the |
| Authority (Rule 23.1(b)). | vas carried out on the basis of a translation of t | |
| b. With regard to any nucleotide an was carried out on the basis of th | id/or amino acid sequence disclosed in the in e sequence listing: | nternational application, the International search |
| | onal application in written form. | |
| filed together with the inte | ernational application in computer readable for | m. |
| furnished subsequently to | this Authority in written form. | |
| furnished subsequently to | this Authority in computer readble form. | |
| the statement that the sul international application a | bsequently furnished written sequence listing one stiled has been furnished. | loes not go beyond the disclosure in the |
| the statement that the info furnished | ormation recorded in computer readable form i | s identical to the written sequence listing has been |
| 2. X Certain claims were fou | nd unsearchable (See Box I). | |
| 3. Unity of invention is lac | king (see Box II). | |
| 4. With regard to the title, | | |
| X the text is approved as so | ubmitted by the applicant. | |
| the text has been establis | shed by this AuthorIty to read as follows: | |
| 5. With regard to the abstract, | | |
| X the text is approved as so | ubmitted by the applicant. | |
| the text has been establis | shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re | ity as it appears in Box III. The applicant may, port, submit comments to this Authority. |
| 6. The figure of the drawings to be pub | lished with the abstract Is Flgure No. | |
| as suggested by the appl | icant. | X None of the figures. |
| because the applicant fai | led to suggest a figure. | |
| because this figure better | r characterizes the invention. | |

International Application No PCT/US 03/22584

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/4015 A61P37/04

A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\label{localization} \begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{A61K} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, CHEM ABS Data

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| , | column 1, line 49 -column 2, line 25 column 3, line 15-58; claims 1,4-6; examples 2-4 | 51,52, 56,57 1-62 |
| · | | |

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| Further documents are listed in the continuation of box C. | χ Patent family members are tisted in annex. |
| Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the International filing date but later than the priority date claimed | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family |
| Date of the actual completion of the international search 4 December 2003 | Date of mailing of the International search report 19/12/2003 |
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| C.(Continu | ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | | | | | |
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| | | | | | | |





| Box I | Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet) |
|------------|--|
| This inte | ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: |
| 1. | Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: |
| 2. X | Claims Nos.: 1-62 (all partially) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210 |
| 3. | Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). |
| Box II | Observations where unity of invention is lacking (Continuation of item 2 of first sheet) |
| This Inter | rnational Searching Authority found multiple inventions in this international application, as follows: |
| | |
| | |
| | |
| 1. | As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. |
| 2. | As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. |
| 3 | As only some of the required additional search fees were limely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: |
| 4. 1 | No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: |
| Remark o | The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees. |

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-62 (all partially)

Present claims 1-62 relate to a product (a conjugate) or a method defined by reference to a desirable characteristic or property, namely

(i) carrier

(ii) modifier

(iii) detectable label

(iv) diagnostic label

As a consequence, present claims 1-62 relate to an extremely large number of possible conjugates and methods. In fact, the claims contain so many options and possible combinations that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible.

The claims cover all possible products or methods falling under the desirable characteristic or property, which also lacks clarity, but the application provides support in the meaning of Art. 5 PCT for only a limited number of such conjugates.

In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the parts of the claimed conjugates which are disclosed in claims 2-4, 7-12, 14, 16, 18, 21, 22, 25-27, 29-31, 36-40, 46,, 47, and 49, as well as the examples in the description.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



International Application No
PCT 5 03/22584

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